

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application.

IN THE CLAIMS:

1. (Currently Amended) ~~An~~ A method of recording information on an optical data medium comprising:

providing a substrate;

coating a substrate that is optionally already coated with one or more reflective layers; ~~and on the surface of which have been applied~~

applying on a surface of the substrate

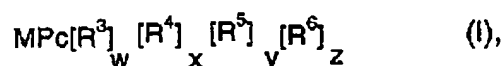
(1) an information layer that can be recorded on using light, wherein the information layer contains (i) a light-absorbing compound comprising at least one phthalocyanine and (ii) optionally a binder,

(2) optionally one or more reflective layers, and

(3) optionally a protective layer or a further substrate or a covering layer,

wherein the optical data medium can be recorded on and read using blue light having a wave length in the range of about 360 nm to about 460 nm,

wherein the phthalocyanine dye corresponds to the formula (I)



in which

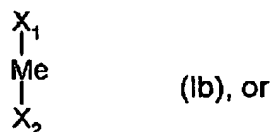
Pc represents a phthalocyanine,

M represents two independent H atoms, a divalent metal atom, a trivalent axially monosubstituted metal atom of the formula (Ia)



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a tetravalent axially disubstituted metal atom of the formula (lb)



a trivalent axially monosubstituted and axially monocoordinated metal atom of the formula (lc)



with the proviso that when X_1 or X_2 is a charged ligand, the charge is compensated by an oppositely charged ion,

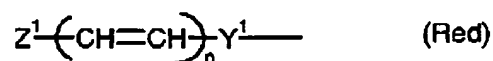
in which

X^1 and X^2 , independently of one another, represent halogen, hydroxyl, oxygen, cyano, thiocyanato, cyanato, alkenyl, alkynyl, arylthio, dialkylamino, alkyl, alkoxy, acyloxy, alkylthio, aryl, aryloxy, $O-PR^{10}R^{11}$, $-O-P(O)R^{12}R^{13}$, $-O-SiR^{14}R^{15}R^{16}$, NH_2 , alkylamino and the radical of a heterocyclic amine,

R^3 , R^4 , R^5 and R^6 correspond to substituents of the phenyl ring of the phthalocyanine and independently of one another, represent halogen, cyano, nitro, alkyl, aryl, alkylamino, dialkylamino, alkoxy, alkylthio, aryloxy, arylthio, SO_3H , $SO_2NR^1R^2$, CO_2R^9 , $CONR^1R^2$, $NH-COR^7$, or a radical of the formula $-(B)_m-D$, in which

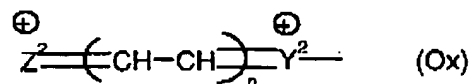
B denotes a bridge member selected from the group consisting of a direct bond, CH_2 , CO , $CH(alkyl)$, $C(alkyl)_2$, NH , S , O , or $-CH=CH-$, such that $(B)_m$ denotes a chemically reasonable sequence of bridge members B with $m = 1$ to 10 , and

D represents the monovalent radical of a redox system of the formula



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or



or represents a metallocenyl radical or metallocenylcarbonyl radical,

wherein Z^1 and Z^2 , independently of one another, represent NR^1R^2 , OR^3 , or SR^4 ,

Y^1 represents NR^1 , O, or S,

Y^2 represents NR^1 ,

n represents 1 to 10, and

R^1 and R^2 , independently of one another, represent hydrogen, alkyl, cycloalkyl, aryl or hetaryl, or form a direct bond or a bridge to one of

the C atoms of the $\text{---}(\text{CH}=\text{CH})_n\text{---}$ or $\text{---}(\text{CH} \text{---} \text{CH})_n\text{---}$ chain,

w , x , y and z , independently of one another, represent 0 to 4 and the sum $w+x+y+z$ is <16 ,

R^1 and R^2 , independently of one another, represent hydrogen, alkyl, hydroxyalkyl, or aryl, or R^1 and R^2 , together with the N atom to which they are bonded, form a heterocyclic 5-, 6-, or 7-membered ring, optionally with participation of further hetero atoms, and

R^7 to R^{16} , independently of one another, represent alkyl, aryl, hetaryl, or hydrogen.

2. (Currently Amended) ~~An optical data medium~~ The method according to Claim 1 wherein the substrate is transparent.

3. (Currently Amended) ~~An optical data medium~~ The method according to Claim 1 wherein the blue light is provided by a laser light.

4. (Cancelled)

5. (Currently Amended) ~~An optical data medium~~ The method according to Claim [4] 1, wherein M represents

(1) two independent H atoms or a divalent metal atom selected from the group

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consisting of Cu, Ni, Zn, Pd, Pt, Fe, Mn, Mg, Co, Ru, Ti, Be, Ca, Ba, Cd, Hg, Pb, and Sn,

- (2) a trivalent axially monosubstituted metal atom of the formula (Ia) in which Me represents Al, Ga, Ti, In, Fe, or Mn, or
- (3) a tetravalent metal atom of the formula (Ib) in which Me represents Si, Ge, Sn, Zn, Cr, Ti, Co, or V.

6. (Currently Amended) ~~An optical data medium~~ The method according to Claim [4] 1, wherein

M represents a radical of the Formula (Ia) in which Me represents Al, X₁ and X₂ represent halogen, aryloxy, or alkoxy, and w, x, y, and z each represent 0.

7. (Currently Amended) ~~An optical data medium~~ The method according to Claim [4] 1, wherein

M represents a radical of the Formula (Ib) in which Me represents Si, X₁ and X₂ represent halogen, aryloxy, or alkoxy, and w, x, y, and z each represent 0.

8. (Currently Amended) ~~A process for the production of~~ The method according to Claim 1, wherein the optical data medium according to Claim 1 is obtained by a process comprising coating a substrate that is optionally already coated with a reflective layer with a phthalocyanine dye, optionally in combination with suitable binders and additives and optionally suitable solvents, and optionally providing the substrate with a reflective layer, further intermediate layers, and optionally a protective layer or a further substrate or a covering layer.

9. (Currently Amended) ~~A process for the production of the optical data media~~ The method according to Claim 8 wherein the coating with the phthalocyanine dye is effected by spin-coating, sputtering, or vapor deposition.

10. (Cancelled)

11. (Cancelled)

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12. (Cancelled)
13. (Currently Amended) ~~An~~ The method according to Claim 1, wherein the optical data medium according to Claim 1 in addition to the one information layer further comprises layers selected from the group consisting of metal layers, dielectric layers, and protective layers.
14. (Cancelled)
15. (New) The method of Claim 13, wherein the optical data medium does not include an interference layer.

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